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ಬೆಂಗಳೂರು ನೀರು ಸರಬರಾಜು ಮತ್ತು ಒಳಚರಂಡಿ ಮಂಡಳಿ

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

Office of the Chief Engineer (Cauvery Headworks), 8th Floor, Cauvery Bhavan, K.G.Road, Blore-560 009.

No.BWSSB/CE(CH)TE/ACE(CH)/TA/07/2024/219 /2026-27 **Date:** 01/7/2026

Addendum No.1

(Through Karnataka public procurement Portal)

https://kppp.karnataka.gov.in

Name of the Work: Work of up gradation of SCADA system from analog type to new advanced technology at 4th Stage Phase I WTP at T.K. Halli

Repliers to Pre-Bid Quarries, Pre-Bid Meeting Dt:24/06/2026

IFT No.: **BWSSB/CE(CH)TE/TA-01/107/156/2026-27 dated 09-06-2026**

Sl. No	Tender Clause	Description / Tender Criteria	Queries & Confirmation	Replies
1	Section2, A 3.2 (a)	achieved in at least two financial years a minimum financial turnover (in all classes of civil/mechanical engineering construction works only) of Rs.848.80 lakhs	achieved in at least two financial years a minimum financial turnover (in all classes of Automation, Instrumentation & Electrical works only) of Rs.848.80 lakhs	Tender conditions prevails
2	Section2, A 3.2 (b)	Satisfactorily completed As prime contractor, should have satisfactorily	Satisfactorily completed As prime contractor in any Central Government / State Government /	Tender conditions prevails

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		completed at least one work of providing of SCADA in WTP having value not less than Rs. 212.20 lakhs in last 5 years i.e. 2021-22 to 2025-26. and completed in all respect in drinking water supply project of length of 19.2 Rmt in any One year during the last 5 years.	PSUs / Private Institutions, should have satisfactorily completed at least one work of providing of SCADA having value not less than Rs. 212.20 lakhs in last 10 years i.e. 2015-16 to 2025-26.	
3	Section2, A 3.2 (c)	The tenderer in any one year should have satisfactorily executed the work of supply, erection /retrofitting of latest/advanced Technology SCADA in minimum 1 no. of Water Treatment Plant.	The tenderer in any one year should have satisfactorily executed the work of supply, erection /retrofitting of latest/advanced Technology SCADA with PLC / DCS in any Central Government / State Government / PSUs / Private Institutions	Tender conditions prevails
4	Section 2, A 3.6	Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under: Assessed available tender capacity = (A*N*1.5 - B) where A = Maximum value of civil engineering works executed in any one year during the last five years (updated to 2026-27 price level) taking into	Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under: Assessed available tender capacity = (A*N*1.5 - B) where A = Maximum value of Electrical / Automation / Instrumentation Works executed in any one year during the last five years (updated to 2026-27 price level) taking into account the completed as well as works in progress.	Tender conditions prevails

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		account the completed as well as works in progress. N = Number of years prescribed for completion of the works for which tenders are invited N = 12 months. B = Value, at 2026-27 price level, of existing commitments and on-going works to be completed during the next 12 months (period of completion of the works for which Tenders are invited)*	N = Number of years prescribed for completion of the works for which tenders are invited N = 12 months. B = Value, at 2026-27 price level, of existing commitments and on-going works to be completed during the next 12 months (period of completion of the works for which Tenders are invited)*	
5	Section 3 1.2	Total value of civil engineering construction works executed and payments received in the last five years (in Rs. Lakhs)	Total value of Automation, Instrumentation & Electrical works executed and payments received in the last five years (in Rs. Lakhs)	Tender conditions prevails
6	Section 7, Technical Specification	SCADA SOFTWARE ABB SCADA for 1 Engineering /Operator station including License Dongle for USB Support.	The scope mentions Fixing of SCADA Syastem.It is not clear that it is supply, Installation of SCADA system? However, the scope does not explicitly define requirements related to software engineering, application development, graphics configuration, PLC/SCADA programming, database configuration, testing, FAT/SAT, migration of existing data, and commissioning activities. Kindly clarify whether these activities are included in the contractor's scope. if it is not executed by the contractor, the	Complete SCADA solutions and integrating the same with BWSSB centralized SCADA (CP-24) project. Visit site for further clarifications.

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			purpose of SCADA providing will not fulfil	
7	Tender Notification/ Conditions of Contract Section-7	SCADA Software – ABB Make	We request BWSSB to allow equivalent SCADA solutions from reputed OEMs such as Schneider Electric, Mitsubishi Electric, Rockwell Automation, Siemens, etc., meeting all functional specifications ,to ensure wider competition, better lifecycle support, and seamless integration with third-party systems.	SCADA software: ABB / equivalent SCADA solutions from reputed OEM's
8	Tender Notification/ Conditions of Contract Section-7	Fixing of SCADA system Specifications	It specifies only one system. But at site various units are linked with different PLC and the same is connected to main PLC. Only Changing main PLC is not fulfil the SCADA operation. Please clarify	Complete SCADA solutions and integrating the same with BWSSB centralized SCADA (CP-24) project. Visit site for further clarifications.

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9	Section-7	Supplying of Pre & Post chlorination – Vacuum Regulator	It is not clear, complete chlorination system to supply or only Vacuum Regulators to be supply. What about installation & Commissioning.	Chlorine concentration detection and displaying the same in SCADA
10	Section-7 Point 15 to 18		It repeats the same valves in these points. Please clarify.	Tender conditions prevails
11	BOQ Point 13	Removing of Existing old above mentioned items and fixing & servicing of New items at Field/site	What about cabling/wiring, testing & commissioning, whose scope?.	Installation of New equipments should include cabling/wiring, testing and commissioning
12	Tender Notification/ Conditions of Contract Section-7	Warrenty	Warranty provisions are mentioned for equipment; however, SCADA software license, application programs, PLC logic modifications, HMI graphics ,and database configurations are not specifically addressed. Kindly clarify the warranty obligations applicable to software and engineering services.	The warranty provisions stipulated in the tender shall be applicable to the complete SCADA system, including all hardware, software, engineering, configuration, integration, and commissioning works executed under the scope of the contract. Accordingly, the warranty shall cover the SCADA software license, application software, PLC programming and logic modifications, HMI graphics, database configuration, communication interfaces, system integration, and all associated engineering services. During the warranty period, the contractor shall rectify any defects, bugs, configuration errors, or performance issues arising out of design, engineering, software development, integration,

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				installation, or commissioning, at no additional cost to BWSSB. However, warranty shall not apply to defects or failures resulting from unauthorized modifications, misuse, or changes carried out by BWSSB or any third party without the contractor's involvement.
13	Tender Notification/ Conditions of Contract Section-7, DLP		Kindly clarify in DLP period, the responsibility matrix for hardware, software, communication network, and system failures after commissioning. In WTP operation SCADA plays key role. Non-functioning /improper functioning of SCADA effect to water quality & quantity. Since the Water Treatment Plant is currently under operation by another agency, kindly clarify whether deployment of an OEM/System Integrator representative at site during the DLP period is mandatory for smooth functioning of WTP	The successful bidder shall ensure the continuous, reliable, and satisfactory functioning of the SCADA system throughout the Defect Liability Period (DLP). The bidder shall provide adequate technical support, including deployment of qualified service personnel/OEM/System Integrator representatives at site whenever required for preventive maintenance, troubleshooting, rectification of defects, software support, and restoration of the system within the response time stipulated in the tender. However, permanent deployment of an OEM/System Integrator representative at the site throughout the DLP is not mandatory, unless specifically stipulated elsewhere in the tender document. The responsibility for ensuring

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				uninterrupted operation and timely resolution of SCADA-related issues shall rest solely with the successful bidder.
14	General		Clarify whether migration must be executed during shutdown or live plant operation and specify permissible shutdown duration.	Automation work should be carried out without affecting the water Treatment process.
15	Tender Notification/ Conditions of Contract Section-7	SCADA Software – ABB Make	Is ABB SCADA mandatory or are equivalent OEM SCADA platforms acceptable?	SCADA software: ABB / equivalent SCADA solutions from reputed OEM's
16	BOQ Point 13	Removing of Existing old above mentioned items and fixing & servicing of New items at Field/site	Clarify whether existing field cables, JB's, and marshalling panels are to be reused or replaced.	All existing field cables, JB's , marshalling panels are being replaced.
17	General		Provide analyzer specifications including approved makes, ranges, accuracy, IP rating, and communication protocols.	Visit site for clarification
18	General		Provide complete valve schedule including sizes, torque requirements, fail-safe positions, and mounting details.	Visit site for clarification
19	General		Provide detailed specifications for electric actuators including approved makes and duty classification.	Visit site for clarification
20	General		Clarify integration scope with MCCs, VFDs, dosing systems, flow meters, and existing plant equipment.	Complete integration of SCADA

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21	General		Confirm requirements for redundant servers, network architecture, and disaster recovery systems.	Visit site for clarification
22	General		Clarify cybersecurity requirements such as firewall, VLAN, IEC 62443, audit logs, and antivirus.	The SCADA system shall be designed and implemented in accordance with applicable industry standards and best practices, including IEC 62443, wherever applicable. The bidder shall ensure that the proposed solution does not compromise the existing operational network and shall be responsible for integrating the cyber security measures necessary to meet the functional and security requirements of the project, without any additional cost to BWSSB.
23	General		what are communication protocols required between PLCs, analyzers, actuators, and SCADA.	Visit site for clarification
24	General		Provide control philosophy and Cause & Effect Matrix for interlocks and automation sequences.	The control philosophy, Cause & Effect Matrix, interlocks, and automation sequences provided in the tender document are indicative of the functional requirements. The successful bidder shall review, develop, and submit the detailed control philosophy, Cause & Effect Matrix, PLC logic, interlocks, and automation sequences in consultation with BWSSB, based on the actual plant process and operational requirements, for approval before implementation. The final control philosophy and Cause & Effect

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				Matrix shall ensure safe, reliable, and uninterrupted operation of the Water Treatment Plant and shall comply with the applicable standards and the functional requirements specified in the tender document. No additional payment shall be made on this account, and the approved documents shall form part of the contract deliverables.
25	General		Clarify FAT, SAT, integrated testing requirements, and acceptance criteria.	The successful bidder shall carry out Factory Acceptance Testing (FAT), Site Acceptance Testing (SAT), integrated system testing, and commissioning for all hardware, software, PLCs, SCADA, communication systems, and associated equipment covered under the scope of the contract. The bidder shall submit detailed FAT and SAT procedures, test protocols, and acceptance criteria for approval by BWSSB before conducting the tests. FAT shall verify the functionality of the supplied system at the manufacturer's works, while SAT and integrated testing shall demonstrate successful installation, integration, communication, control functions, interlocks, alarms, trends, reports, redundancy (where applicable), and overall system performance under actual site operating

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				conditions. The system shall be considered accepted only upon successful completion of the approved FAT, SAT, integrated testing, and commissioning, and after demonstrating compliance with the functional requirements and technical specifications of the tender to the satisfaction of BWSSB. Any deficiencies observed during testing shall be rectified by the successful bidder at no additional cost to BWSSB
26	General		What is the warranty period, AMC scope, and OEM support requirements after commissioning.	As per tender

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